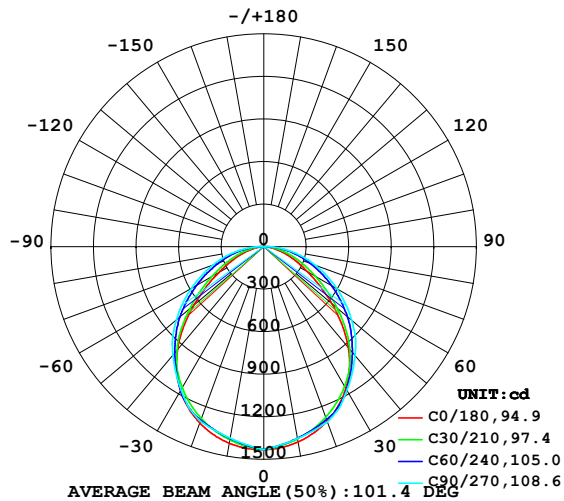


LUMINAIRE PHOTOMETRIC TEST REPORT

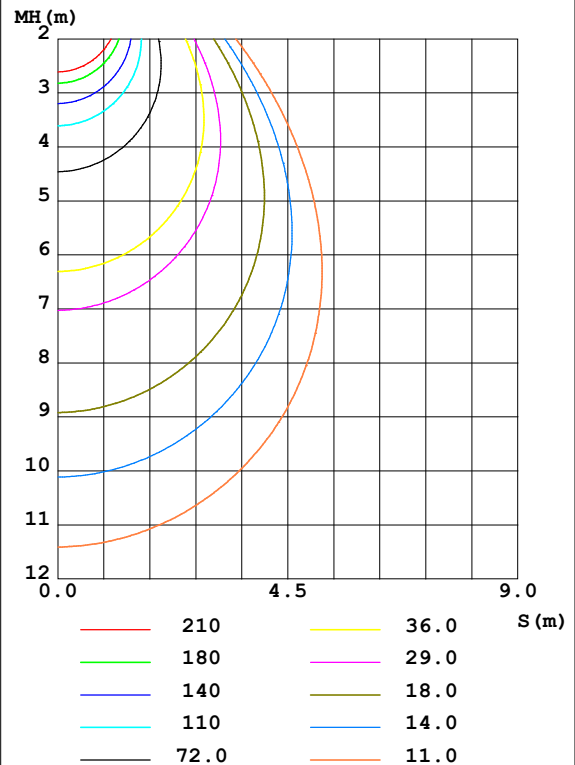
Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.66 lm/W			
MODEL		I _{max} (cd)	1433	S/MH(C0/180)	1.22
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3599.8	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	3599.77	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

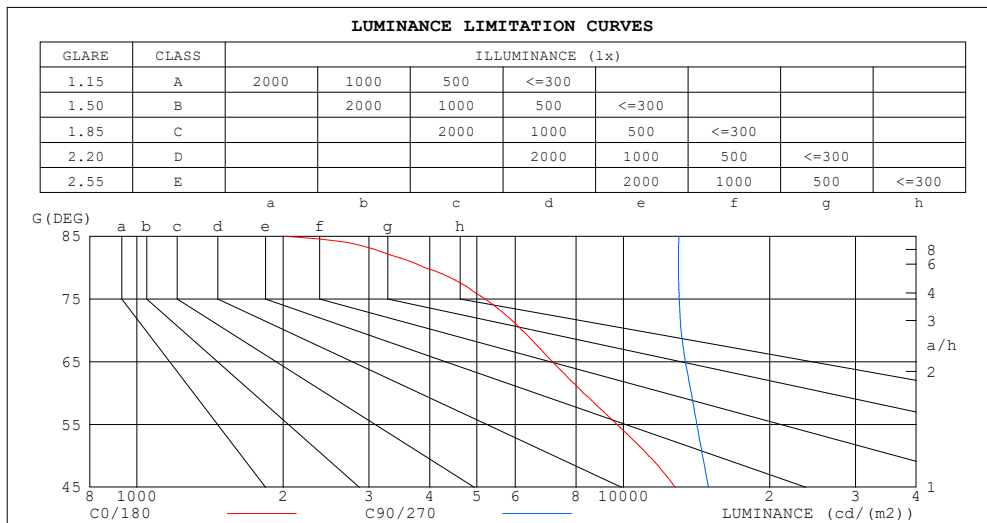
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1398	1372	1374	1379	1408	1377	1371	1371	0- 10	133.6	133.6	3.71,3.71
20	1309	1286	1315	1296	1323	1294	1310	1283	10- 20	378.9	512.5	14.2,14.2
30	1157	1161	1173	1173	1175	1168	1167	1157	20- 30	569.5	1082	30.1,30.1
40	928.6	955.2	1002	966.1	946.6	961.4	997.1	952.6	30- 40	665.0	1747	48.5,48.5
50	628.3	721.9	810.2	731.0	645.6	725.7	804.9	721.5	40- 50	650.5	2397	66.6,66.6
60	358.6	494.9	597.2	496.9	367.1	493.2	591.0	495.8	50- 60	536.6	2934	81.5,81.5
70	183.4	298.0	389.0	291.1	185.4	290.1	382.8	299.1	60- 70	378.0	3312	92,92
80	58.73	139.1	195.2	133.3	58.84	133.2	191.9	140.1	70- 80	218.1	3530	98.1,98.1
90	0.4431	1.197	1.390	1.288	0.4625	0.8625	0.9721	1.559	80- 90	69.59	3600	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-07-23

$V(B)$ Range:-90 - 90DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:6.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2028	13024
80	3906	12982
75	5198	13033
70	6193	13135
65	7154	13409
60	8282	13792
55	9712	14167
50	11288	14554
45	12778	14969

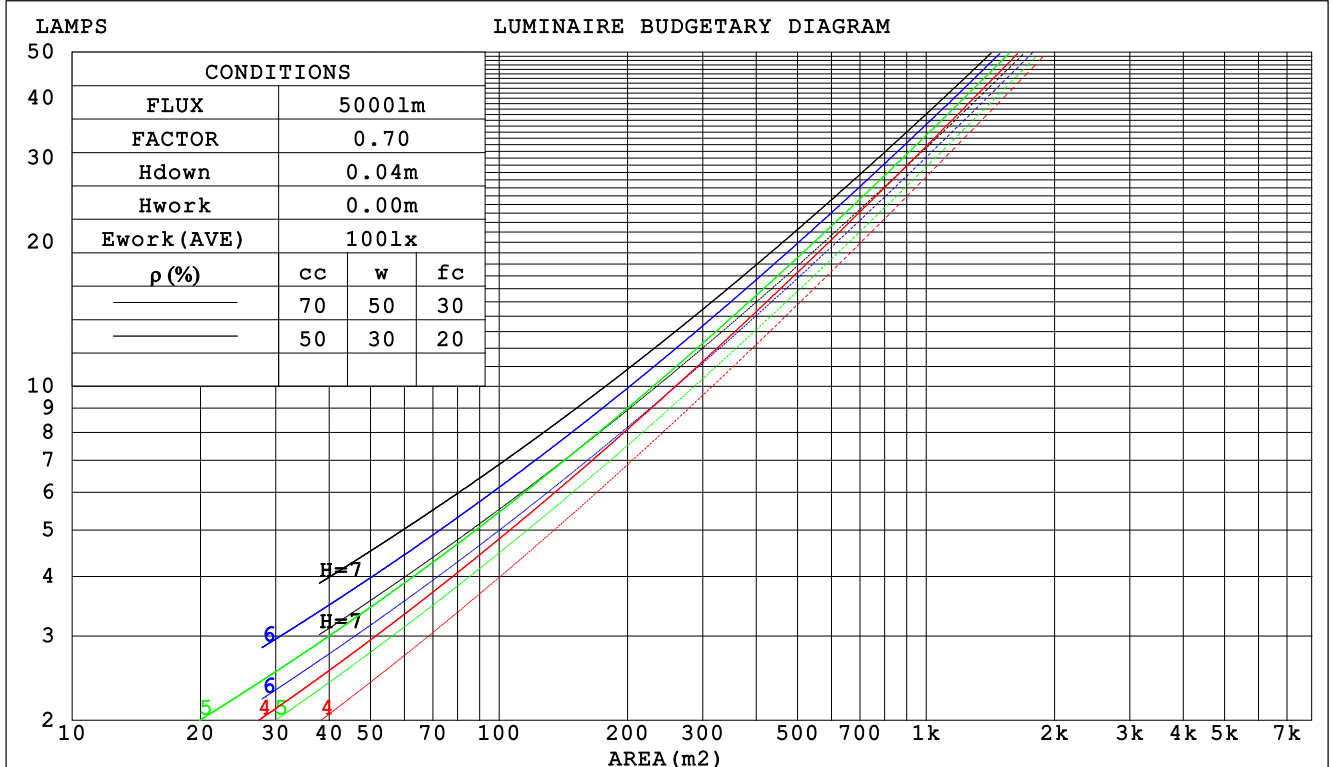
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz		
Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.92	.85	.79	.90	.84	.78	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.47	.45
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz		
Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.298	.170	.054	.291	.166	.053	.278	.159	.051	.266	.153	.049	.255	.148	.048		
2.0	.281	.154	.047	.274	.151	.047	.263	.146	.045	.252	.141	.044	.242	.137	.043		
3.0	.260	.139	.041	.255	.136	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039		
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.219	.117	.035	.211	.115	.035		
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.204	.107	.032	.197	.105	.032		
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.027	.172	.090	.026		
8.0	.181	.089	.025	.178	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.170	.082	.023	.168	.082	.023	.162	.080	.023	.158	.079	.023	.153	.078	.022		
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.127	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz Lamp Flux:3599.77x1 lm										
NAME: L7422-30W-AOK-REKW-SL										
MFR.: EVERFINE										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	15.8	17.2	16.0	17.4	17.6	17.7	19.2	18.0	19.4	19.6
3H	16.5	17.9	16.8	18.1	18.4	19.4	20.7	19.7	21.0	21.2
4H	16.8	18.1	17.1	18.4	18.6	20.1	21.4	20.4	21.7	21.9
6H	16.9	18.2	17.3	18.4	18.7	20.7	22.0	21.1	22.2	22.5
8H	17.0	18.1	17.3	18.4	18.7	21.0	22.2	21.3	22.4	22.7
12H	16.9	18.1	17.3	18.4	18.7	21.2	22.3	21.5	22.6	22.9
4H 2H	16.5	17.8	16.9	18.1	18.3	18.1	19.4	18.4	19.6	19.9
3H	17.5	18.7	17.9	19.0	19.3	20.0	21.1	20.3	21.4	21.7
4H	17.9	18.9	18.3	19.3	19.6	20.9	21.9	21.3	22.2	22.6
6H	18.1	19.0	18.5	19.4	19.8	21.7	22.6	22.1	23.0	23.3
8H	18.2	19.0	18.6	19.4	19.8	22.0	22.9	22.4	23.2	23.6
12H	18.2	19.0	18.6	19.3	19.7	22.3	23.1	22.7	23.4	23.8
8H 4H	18.4	19.3	18.8	19.6	20.0	21.0	21.9	21.5	22.3	22.6
6H	18.8	19.5	19.2	19.9	20.3	22.0	22.7	22.5	23.1	23.6
8H	18.9	19.5	19.4	20.0	20.4	22.5	23.1	22.9	23.5	24.0
12H	19.0	19.5	19.4	19.9	20.4	22.9	23.4	23.3	23.8	24.3
12H 4H	18.5	19.3	18.9	19.7	20.1	21.0	21.8	21.4	22.2	22.6
6H	19.0	19.6	19.5	20.0	20.5	22.1	22.7	22.5	23.1	23.6
8H	19.2	19.7	19.6	20.2	20.6	22.5	23.1	23.0	23.5	24.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.3					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.6					+ 0.2 / - 0.3				

CIE Pub.117, 3600 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.5)
Area: 0.0866 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz		
Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

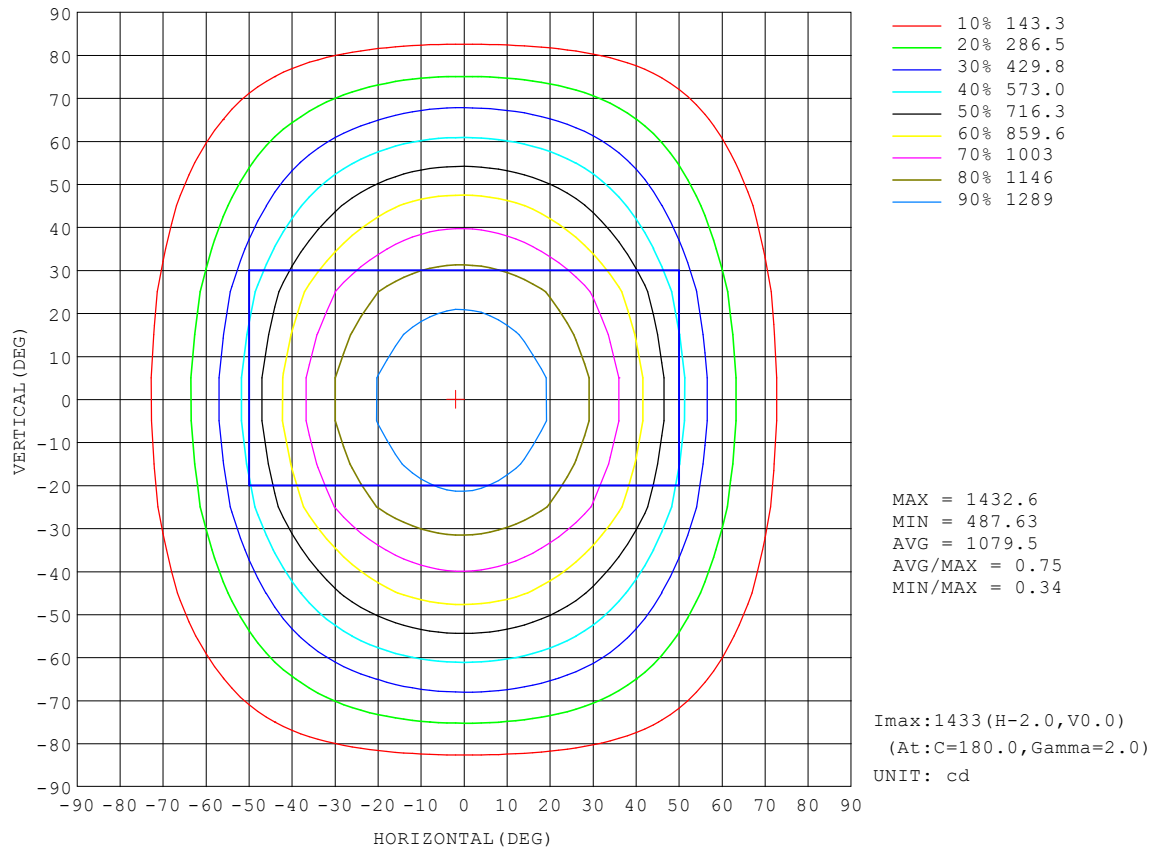
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	101	97	105	100	96	100	96	93	84
5.00	109	104	101	107	103	99	102	99	96	87
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-07-23

$V(B)$ Range:-90 - 90DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:6.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz		
Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

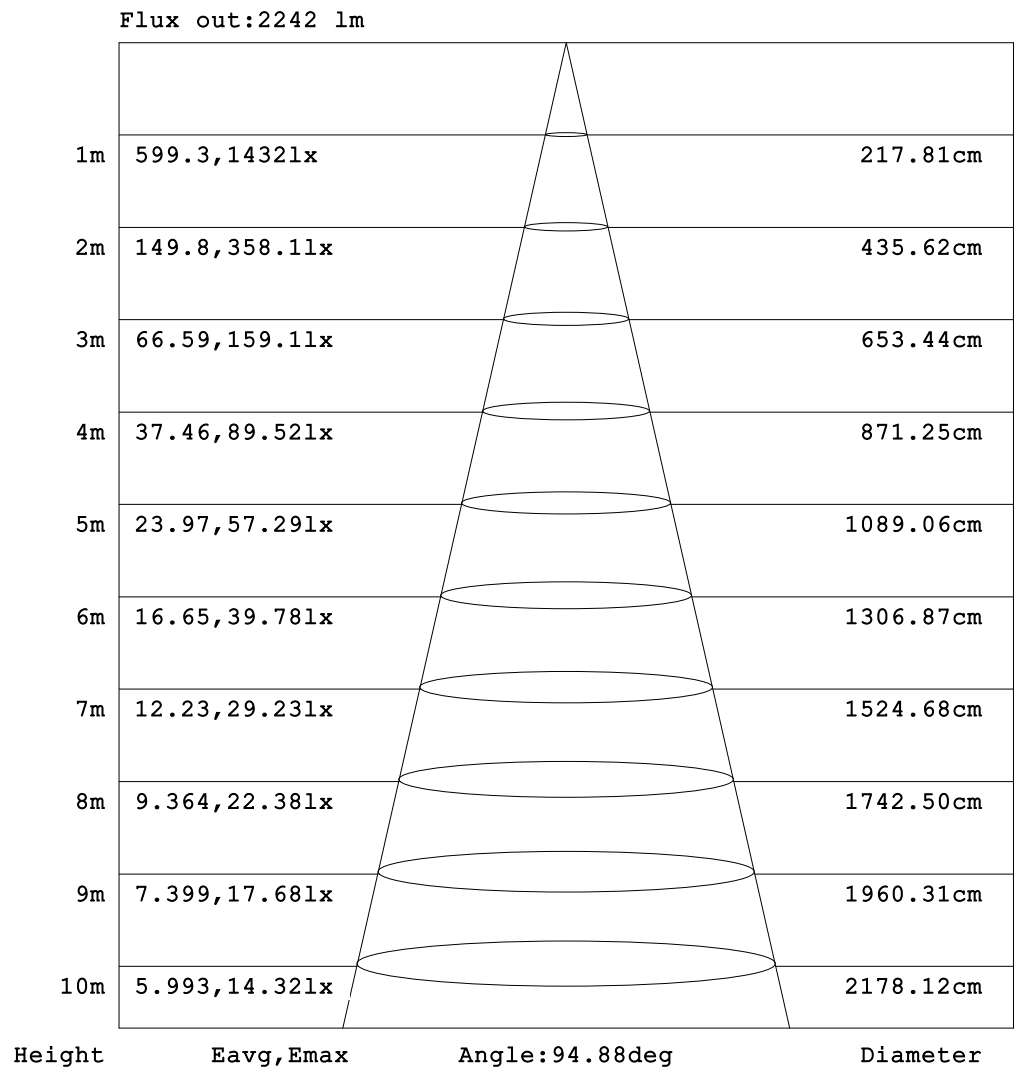


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		



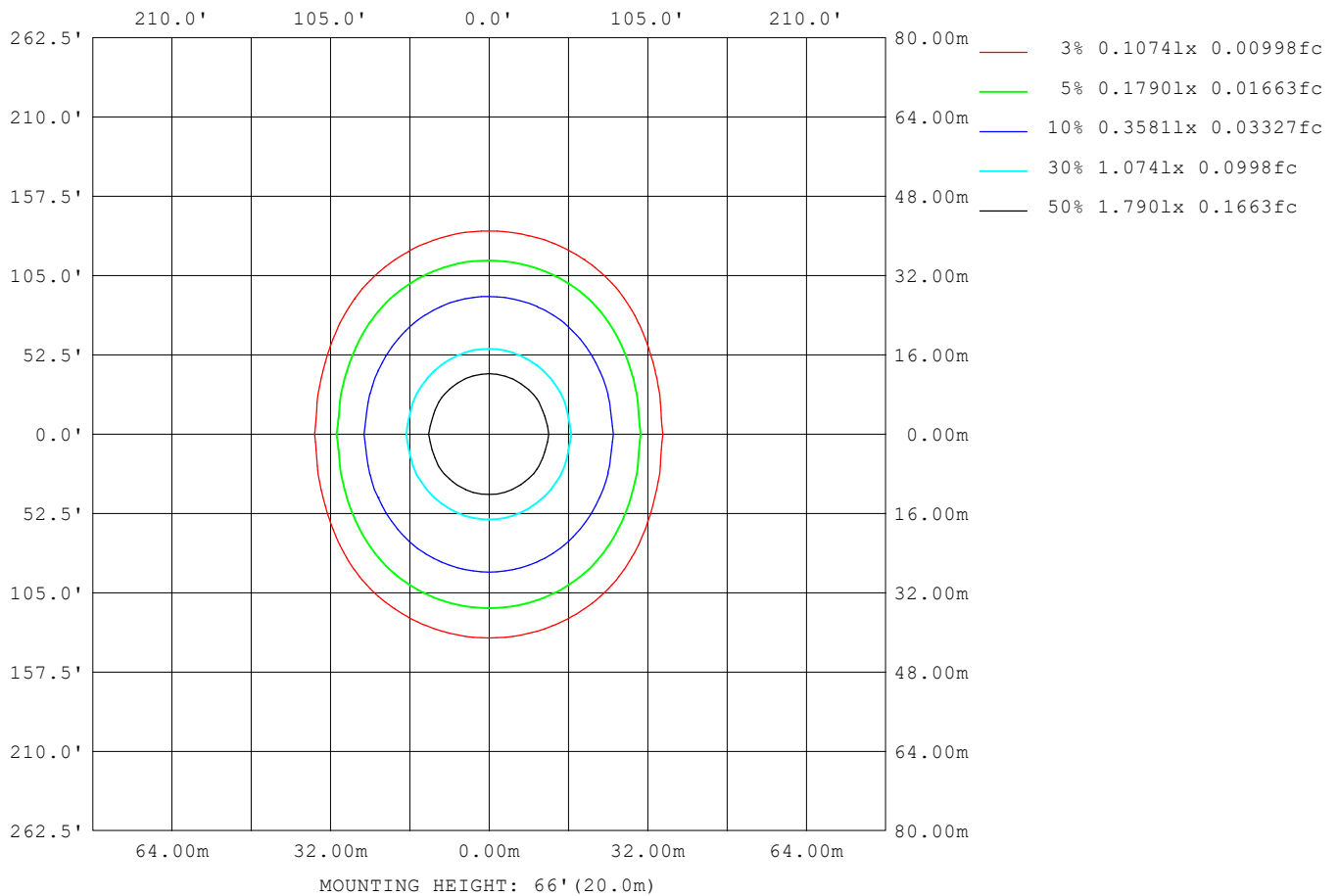
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-07-23

V(B) Range: -90 - 90DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 6.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.38V I:0.2070A P:24.885W PF:0.9984 Freq:59.98Hz		
Lamp Flux:3599.77x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

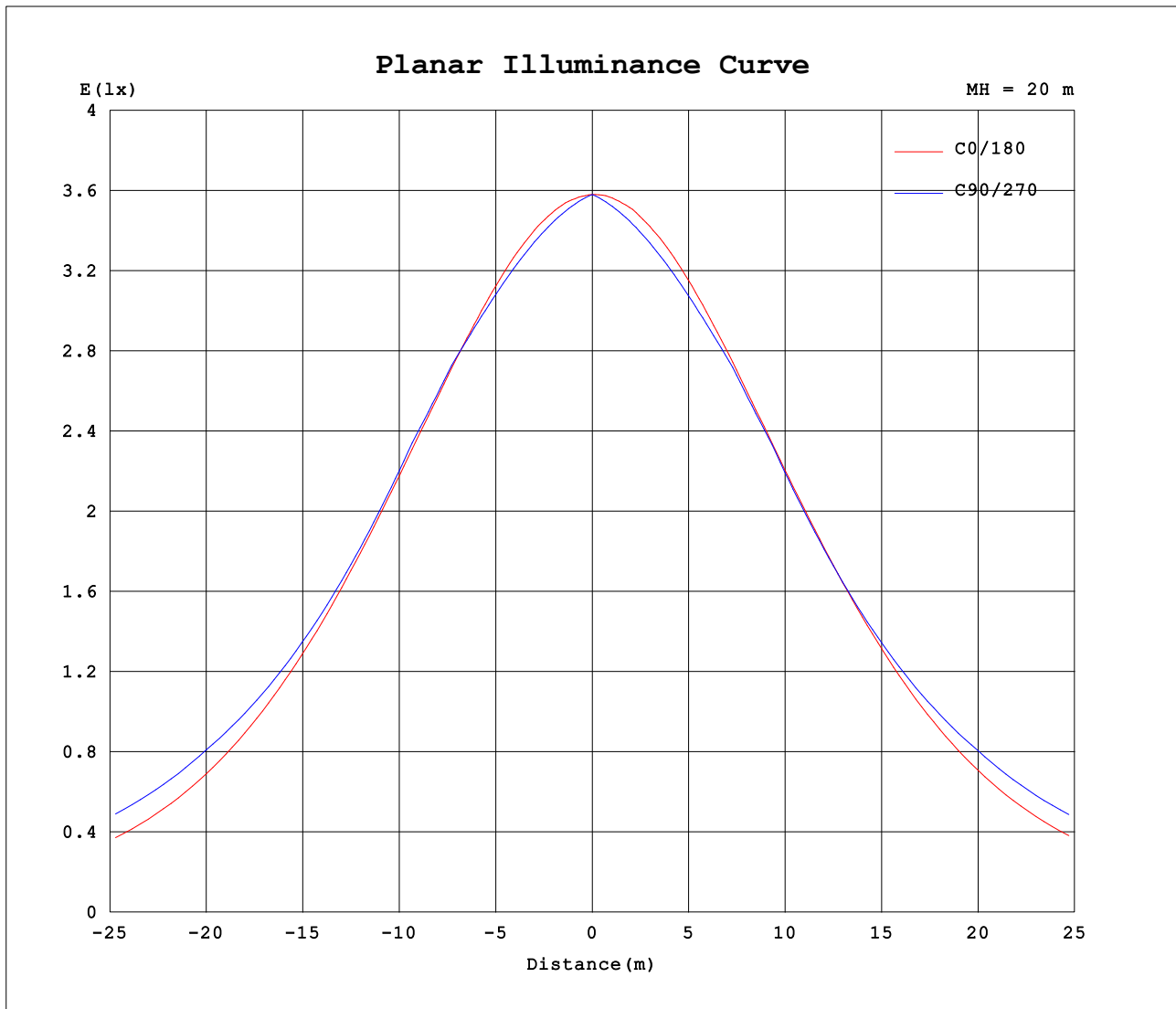
AvgL	cd/m2
L_0~180 (65) av	7214
L_0~180 (75) av	5214
L_0~180 (85) av	2179
L_90~270 (65) av	13317
L_90~270 (75) av	12927
L_90~270 (85) av	12900
L_45 (65) av	10665
L_45 (75) av	9359
L_45 (85) av	8977

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:

```
V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=1.0000]
Remarks:
```

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